



Spencer Mine

1. Location/Land Status: The Spencer Mine is located on BLM land within Section 8, T13N, R9W on the USGS Dos Lomas quadrangle (35.372637N, 107.819975W), approximately 15 miles north of Grants, NM. It is approximately three-quarters of a mile south of the BHP-Billiton Ambrosia Lake millsite. Physical access to the mine can be gained by traveling north 14 miles on NM 605, then west 3 miles on Ambrosia Lake Road, park at the gate on south side of road and travel on foot 0.5 miles south to the mine site. Legal access to the mine was graciously provided by Mr. Robert Schmitt of 57 NM 509, Grants, NM, 87020; phone: (505) 287-2260.

2. Human Activity: No evidence of human activity was noted.

3. Radiological Survey: Radiological survey results were as follows: ground surface maximum of 320 μ R/hour and minimum of 20 μ R/hour. Four-foot elevation maximum was 280 μ R/hour and minimum was 20 μ R/hour. Background radiation level is approximately 20 μ R/hour.

4. Mine Disturbance: The mine consists of collapsed underground workings of approximately 100 by 160 ft. by 8 ft. deep with a large iron head frame fallen into the pit. The area around the collapsed workings is strewn with about 20 rock piles with a total volume of approximately 200 cubic yards. There is a fence enclosing the collapsed workings which has been compromised by further collapse. Equipment at the site includes a utility pole at the north side of the site, and a telephone junction box on the southern portion of the site.

5. Plant Community: The area surrounding the mine is characteristic chaparral. The vegetation on the mine site is 5% bare ground, 5% grass, 20% woody scrub, and 70% forbs.

6. Soils: Soils at the site are Penistaja-Tintero complex, with 1 to 10 percent slopes, 0 to 3 inches sandy loam, 3 to 19 inches sandy clay loam.

7. Wildlife: A single raptor was noted at the site.

8. Land Use: The land use of the area is light to moderate grazing.

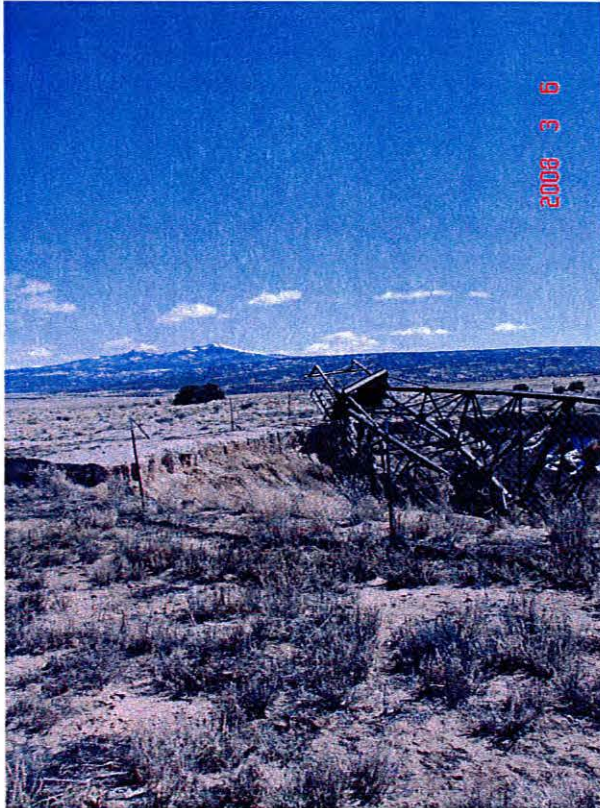
9. Off-Site Impacts: No off-site impacts were noted, however, an arroyo flanked by piles cuts across the site. Radiation levels of 60 μ R/hour at both surface and four foot elevation were noted in this feature.

10. Topographic Features: The site is flat-lying, with an arroyo to the east.

11. Hydrogeology: Based on a review of the NMOSE iWaters database, there are no well records within a one mile search radius. The nearest well with a recorded depth to water is

approximately 2.8 miles to the southeast, with a depth to water of 80 ft. Numerous groundwater monitoring wells are associated with the Ambrosia Lake Mill to the north and east of the site.

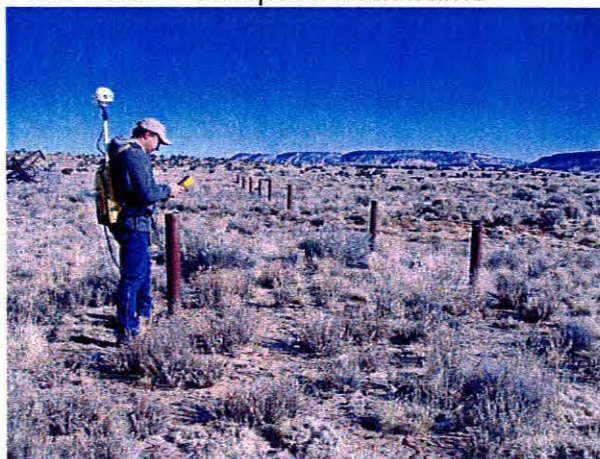
The nearest surface water drainage feature is adjacent to the site to the east.



View north – collapsed headframe



Pit with headframe



Metal fence posts



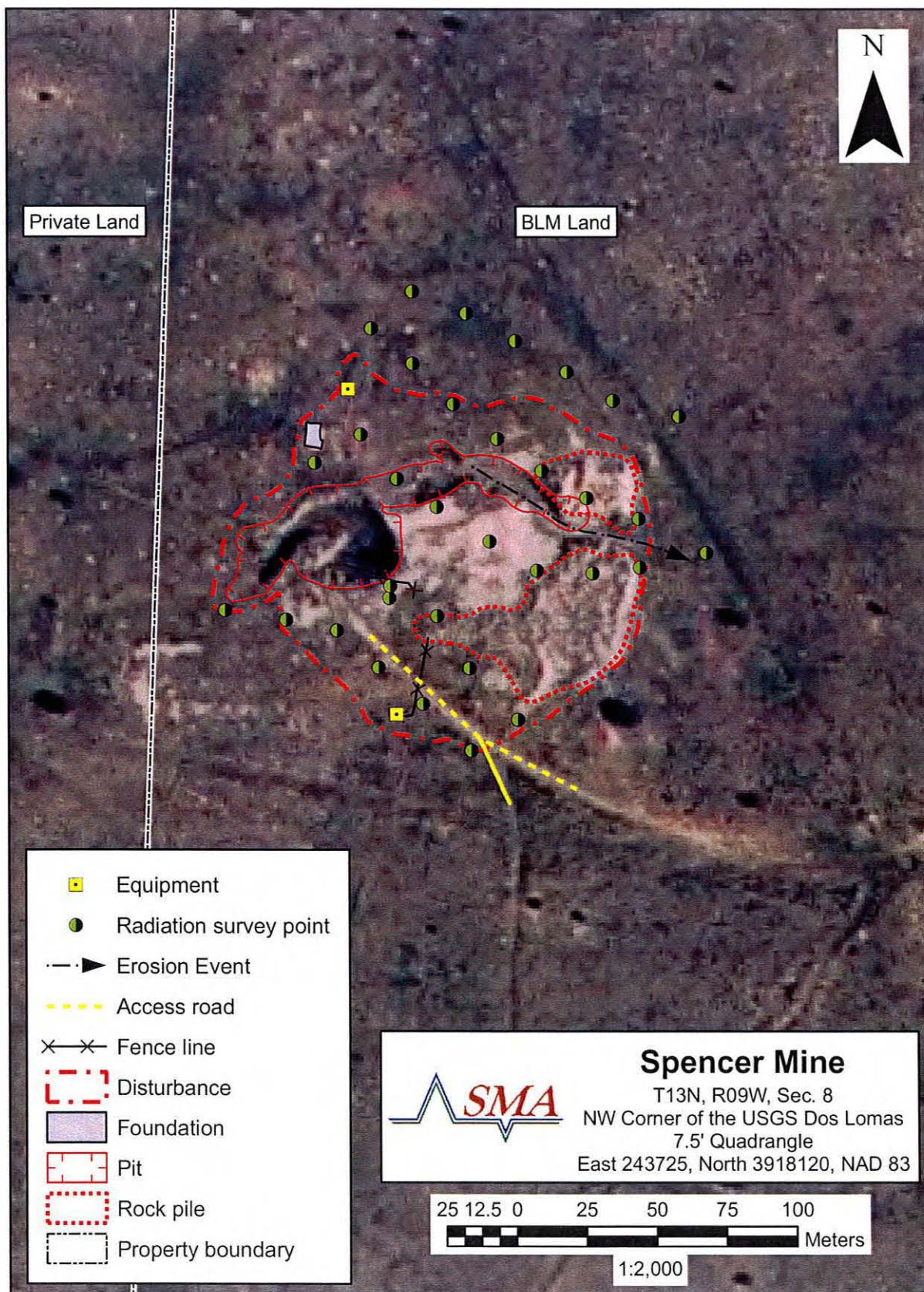
View to west, arroyo cutting site, adj. piles



Pile with raptor



Pad, arroyo, erosion through site



AUM Field Survey Data Sheet

Site SPENCER

Date <u>2/13/08</u>	Time On-Site <u>8:30</u>	Time Off-Site <u>4:51</u>	By <u>Tammi Rossi & Brian Mertz</u>	
Weather Conditions: <u>clear, cool, sunny ground frozen some snow patches</u>				
Disturbances	GPS#	Description	Dim/Area/Volume	Photo #'s
Shafts	<u>8</u>	<u>hole, filled in w/ brush, skeletons (animals) shot with 40' offset for safety</u>	<u>20'</u>	<u>21</u>
Adits				
Pits	<u>2</u>	<u>pit w/ shaft, extensive erosion evident, person</u>		<u>2-10</u>
Waste Rock Dumps	<u>7</u> <u>11</u>	<u>large waste pile waste pile</u>	<u>6'H / 20' x 20' ?</u> <u>12'H</u>	<u>4, 15, 16</u> <u>22</u>
Tailings <u>N/A</u>				
Trenches <u>N/A</u>				
Roads	<u>9</u>	<u>Service Road</u>		
Erosional Features	<u>10</u>	<u>eroding thru waste piles towards shaft</u>		<u>11-20</u>
Structures / Equipment	GPS#	Description	Dimensions	Photo #
Buildings	<u>12</u>	<u>foundation</u>	<u>15' x 30'</u>	<u>23</u>
Headframes	<u>4</u>	<u>GPS shot w/ 40' offset for safety, collapsed</u>	<u>60' long</u>	<u>11</u>

AUM Field Survey Data Sheet

Site

SPENCER

Equipment	5 6 13	Electric power box metal pots utility pole		12 13 14
Soils	GPS#	Description	Extent	Photo #
265 - Uranium MINED Land 205 - Penistaja - TINTICO Complex				
Vegetation	GPS#	Description	Extent	Photo #
See Attachment				
Wildlife	GPS#	Description		Photo #
		Red TAIL HAWK on nearby tree Deer pellets (1 pile) Large amount of coyote sign		1
Human Activity (non-mining, w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
		None KNOWN		
Land Use (grazing, agricultural, roads, etc., w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
		GRAZING - Heavy		
Nearby Residences / Wells (w/in 0.5 mi of site)	GPS#	Description	Distance to Site	Photo #
		N/A		
Topographic Features (roads, water courses, etc.)	GPS#	Description		Photo #

Mine I.D.: *Spencer*

Plant Community Data

Date/Time: *02/13/02*Weather: *Sunny*Observer: *BCW*Current Plant Community:

Photo# *open savannah - PJ Forest located approx 1/4 mile*
70% Forb, 20% shrub, 5% grass, 5% bare spot one juniper (one seed) just off site

Other Species Present:

Photo# *Blue gramma, snakeweed, Four wing Saltbush, ~~spineless~~ sand sage, WINTERFAT*
spineless horsebrush, Galleta(?)

T&E Present: Y/N?

If yes, species?

Photo #

*NO*Noxious Weeds: Y/N?

If yes, species?

Photo #

*NO*Bare Spots? Y/N?

Number of spots/size

Photo #

*yes, occasional*Standing Dead? Y/N?

If yes, species?

Photo #

*NO*Photo Point GPS Coord.

Photo #/Direction

Additional Notes:

Use back if necessary

AUM Field Survey Data Sheet

Site ANM Spenser 2008-3-14

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G0	Rad. Survey ✓	39	42
G1	" ✓	50	50
G2	"	44	48
G3	"	32	30
G4	"	24	24
G5	" ✓	20	20
G6	" ✓	30	30
G7	"	32	30
G8	"	48	50
G9	"	160	140
G10	"	100	100
G11	"	80	80
G12	" ✓	70	60
G13	" ✓	140	140
G14	"	150	130

B. Bennett

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AUM Field Survey Data Sheet

Site AUM - Spencer 2008-3-6

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G15	Rad. survey	150	150
G16	"	320	280
G17	"	300	280
G18	"	30	30
G19	" ✓	32	30
G20	" ✓	30	30
G21	"	230	220
G22	"	80	70
G23	"	44	44
G24	" ✓	44	50
G25	" ✓	42	40
G26	"	24	25
G27	"	32	40 40
G28	"	100	100
G29	"	170	140
G30	" ✓	22	
4050	" ✓	60	60